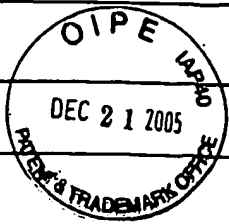
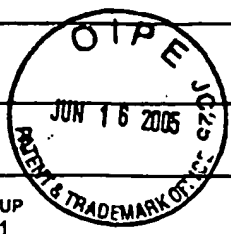



Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT						
FORM PTO 1449 (modified)  <b>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</b>  LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i>  Date Submitted to PTO: December 21, 2005		ATTY DOCKET NO. <b>2003_1571</b>		SERIAL NO. <b>10/694,343</b>				
		APPLICANT <b>Mitsuaki OSHIMA</b>						
		FILING DATE <b>October 28, 2003</b>		GROUP <b>2631</b>				
U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AE	AA	4,597,090	6-24-86	Forney, Jr.				
↓	AB	4,077,021	2-28-78	Csajka et al.				
	AC	2005/0084750	4-21-05	Wang et al.				
	AD	2005/0058633	3-17-05	Epstein et al.				
	AE	2005/0922922						
	AF	4,918,437	4-17-90	Jasinski et al.				
	AG	5,023,889	6-11-91	Divsalar et al.				
	AH	5,063,452	11-5-91	Higurashi				
	AI	5,124,852	6-23-92	Suwa et al.				
	AJ	5,136,380	8-4-92	Cho				
	AK	5,146,335	9-8-92	Kim et al.				
↓	AL	5,148,422	9-15-92	Sako et al.				
AE	AM	5,218,436	6-8-93	Sugiyama et al.				
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
	AN	<del>2627674</del>	<del>7-21-04</del>	<del>CN</del>				
AE	AO	1529838	5-11-05	EP			abstract	
↓	AP	1499725	5-26-04	CN			only abstract	
	AQ	2004-159207	6-3-04	JP			corresponds to AP	
	AR	1528854	5-11-05	EP			only abstract	
AE	AS	52118	12-16-02	UA			only abstract	
	AT	<del>1569334</del>	<del>1-26-05</del>	<del>CN</del>				<del>x</del>
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AU							
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				DATE CONSIDERED 01/26/2007				

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				APPLICANT Mitsuaki OSHIMA			
				FILING DATE October 28, 2003			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
AE	AA	3,824,548	7-16-74	Sullivan et al.			
	AB	3,959,726	5-25-76	Hinoshita et al.			
	AC	4,303,939	12-1-81	Stephens et al.			
	AD	4,303,941	12-1-81	Marti et al.			
	AE	4,309,726	1-5-82	Tanaka et al.			
	AF	4,535,352	8-85	Haskell			
	AG	4,564,858	1-14-86	Resch			
	AH	4,581,639	4-8-86	Judge			
	AI	4,769,819	9-6-88	Matsutani et al.			
	AJ	4,794,447	12-27-88	Tsinberg			
	AK	4,817,192	3-28-89	Phillips et al.			
	AL	5,007,088	4-9-91	Ooi et al.			
	AM	5,029,003	7-91	Jonnalagadda			
	AN	5,134,464	7-28-92	Basile et al.			
	AE	AO					
FOREIGN PATENT DOCUMENTS							
DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO		
AE	AP	5-327807	12-10-93	Japan		abstract	
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AE	AQ	Masafumi SAITO et al., "Bit Error Rate Characteristics of OFDM in Multipath Environment", 1991					
AE	AR	Ryutaro OHMOTO et al., " $\pi/4$ -shift QPSK Subcarrier Transmission", 1991					
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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AE	AA	5,181,112	1-19-93	Citta et al.			
	AB	5,377,051	12-27-94	Lane et al.			
	AC	5,400,084	3-21-95	Scarpa			
	AD	5,576,902	11-19-96	Lane et al.			
	AE	5,218,622	6-8-93	Fazel et al.			
	AF	5,561,468	10-1-96	Bryan et al.			
	AG	5,598,220	1-97	Citta et al.			
AE	AH	5,802,241	9-1-98	Oshima			
	AI						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AE	AJ	7-264148	10-13-95	Japan			abstract
AE	AK	7-322219	12-8-95	Japan			abstract
AE	AL	3-48587	3-1-91	Japan			abstract
	AM						
	AN						
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AE	AO	J. A. C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, Vol. 28, May 1990, pages 5-8 and 11-14					
AE	AP	B. Hirosaki, "An Orthogonally Multiplexed QAM System Using the Discrete Fourier Transform", IEEE Transactions on Communications, Vol. Com-29, No. 7, July 1981, pages 982-989					
AE	AQ	L. J. Cimini, Jr., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing", IEEE Transactions on Communications, Vol. Com-33, No. 7, July 1985, pages 665-675 and Annex					
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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary) Date Submitted to PTO: July 21, 2004				APPLICANT Mitsuaki OSHIMA			
				FILING DATE October 28, 2003		GROUP 2631	
U.S. PATENT DOCUMENTS							
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	AC						
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AE	AJ	2-154583	6-13-90	Japan			abstract
	AK						
	AL						
	AM						
	AN						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
AE	AO	Shigeki MORIYAMA et al., "Delay Propagation Characteristics at VHF and UHF bands in Urban Area", 1991 Spring National Convention Record, The Institute of Electronics, Information and Communication Engineers, Part 2, p. 406, March 15, 1991					
AE	AP	Yasuhiro ITO et al., "Adaptive Weighted Code Division Multiplexing (AW-CDM) Transmission System for Terrestrial Digital Television Broadcasting", ITE Technical Report Vol. 17, No. 13, pp 27-32, February 25, 1993					
	AQ						
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AE	AA	5,311,550	5-10-94	Fouche et al.			
	AB	4,630,287	12-16-86	Armstrong			
	AC	4,271,527	6-2-81	Armstrong			
	AD	5,050,188	9-17-91	Dirr			
	AE	5,398,073	3-14-95	Wei			
	AF	5,452,015	9-19-95	Hulyalkar			
	AG	5,565,932	10-15-96	Citta et al.			
	AH	5,481,412	1-2-96	Bannai et al.			
AE	AI	3,909,721	9-30-75	Bussgang et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	<del>AJ</del>	<del>0305431</del>	<del>4-25-90</del>	<del>EP</del>			<del>X</del>
	AK	0485105	5-13-92	EP			X
	AL	92/14343	8-20-92	WO			X
	AM	89/08366	9-8-89	WO			X
	AN	0031193	7-1-81	EP			X

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	AO	Shinji Matsumoto et al., "200 Mb/s 16 QAM Digital Radio-Relay System Operating in 4 and 5 GHz Bands" Japan Telecommunications Review, January 1982, vol. 24, no. 1, pages 65-73.
	AP	M. Pecot et al., "Compatible Coding of Television Images, Part 2. Compatible System", Signal Processing Image Communication, October 2, 1990, no. 3, pages 259-268.
	<del>AQ</del>	<del>Mitsuaki Oshima, "Constellation Code Division Multiplex for Digital HDTV", IEEE, 1992, pages 1086-1092.</del>

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AE	AA	4,227,152	10-7-80	Godard et al.			
	AB	4,525,846	6-25-85	Bremer et al.			
	AC	4,751,478	6-14-88	Yoshida			
	AD	4,891,806	1-2-90	Farias et al.			
	AE	4,903,125	2-20-90	Parker			
	AF	4,937,844	6-26-90	Kao			
	AG	5,164,963	11-17-92	Lawrence et al.			
	AH	5,555,275	9-1996	Oshima			
AE	AI	5,565,926	10-15-96	Bryan et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	0311166	4-12-89	EP			X
	AK	0329158	8-23-89	EP			X
	AL	64-5135	1-10-89	JP			X
	AM	63-28145	2-5-88	JP			X
	AN	62-133842	6-17-87	JP			X

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	AO	Tricia Hill et al., "A Performance Study of NL4 64-State QAM", IEEE Transactions on Communications, vol. COM-31, June 1983, no. 6, pages 821-826.
	AP	Hideki Ishio et al., "A Proposal of a Carrier Digital Transmission System Using Multi-Level APSK", pages 1-20.
	AQ	Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.

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AE	AA	5,105,442	4-14-92	Wei			
	AB	4,048,572	9-13-77	Dogliotti et al.			
	AC	5,282,019	1-25-94	Basile et al.			
	AD	5,311,547	5-10-94	Wei			
	AE	5,267,021	11-30-93	Ramchandran et al.			
	AF	5,038,219	8-6-91	Yamashita et al.			
	AG	5,087,975	2-11-92	Citta et al.			
↓	AH	5,086,340	2-4-92	Citta et al.			
AE	AI	5,243,629	9-7-93	Wei			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	<del>AJ</del>	<del>53-107657</del>	<del>12-1-78</del>	<del>JP</del>			<del>X</del>
	AK	0282298	9-14-88	Europe			X
	AL	0392538	10-17-90	Europe			X
	AM	0490552	6-17-92	Europe			X
	AN	0506400	9-30-92	Europe			X

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Khaled Fazel et al., Combined multilevel coding and multiresolution modulation, February 8, 1993, Pages 1081-1085					
↓	AP	P. Hoeher et al., Performance of an RCPC-Coded OFDM-based Digital Audio Broadcasting (DAB) System, IEEE Global Telecommunications Conference "Globecom '91", December 2-5, 1991, Vol. 1 of 3, Pages 2.1.1 - 2.1.7					
	<del>AO</del>	<del>K. M. Uz et al., Combined multiresolution source coding and modulation for digital broadcast of HDTV, 1992, Pages 283-292</del>					

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AE	AA	5,142,353	8-25-92	Kageyama et al.			
	AB	5,197,061	3-23-93	Halbert-Lassalle et al.			
	AC	5,291,289	3-1-94	Hulyalkar et al.			
	AD	5,166,924	11-24-92	Moose			
	AE	4,940,954	7-10-90	Aubert et al.			
	AF	5,128,758	7-7-92	Azadegan et al.			
	AG	5,038,402	8-6-91	Robbins			
AE	AH	5,638,112	6-10-97	Bestler et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AI	<del>0448492A1</del>	<del>9-25-91</del>	<del>Europe</del>				<del>X</del>
	AJ	0485108A2	5-13-92	Europe			X	
	AK	0525641A2	2-3-93	Europe			X	
	AL	0540231A2	5-5-93	Europe			X	
	AM	0531046A2	3-10-93	Europe			X	

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	AN	K. M. Uz et al., Multiresolution Source and Channel Coding for Digital Broadcast of HDTV, 1992, Pages 61-69.					
	AO	Nambi Seshadri et al., Multi-Level Block Coded Modulations with Unequal Error Protection for the Rayleigh Fading Channel, Vol. 4, No. 3, May-June 1993, Pages 325-334.					
	AP	<del>William F. Schreiber, Spread Spectrum Television Broadcasting, SMPTE Journal, August 1992, Pages 538-549.</del>					

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AE	AA	5,063,445	11-5-91	Nishizawa et al.			
AE	AB	5,819,000	10-6-98	Oshima			
AE	AC	5,999,569	12-7-99	Oshima			
AE	AD	5,892,879	4-6-99	Oshima			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AE	7-99322	4-11-93	Japan			abstract
	AF	7-79415	3-20-95	Japan			abstract
	AG	5-75568	3-26-93	Japan			abstract
	AH	86-07223	12-4-86	WO			X
	AI	2 187 611	9-9-87	Great Britain			X
	AJ	85/04541	10-10-85	WO			X
	AK	04-196822	7-16-92	Japan			abstract
	AL	2-166979	6-27-90	Japan			abstract
	AM	64-74836	3-20-89	Japan			abstract
	AN	53-108215	9-20-78	Japan			abstract

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	AO	Martin Vetterli et al., Multiresolution Coding Techniques for Digital Television: A Review, Multidimensional Systems and Signal Processing, Volume 3, May 1992, Pages 161-187.
↓	AP	Ezio Biglieri et al., Introduction to Trellis-Coded Modulation with Applications, April 6, 1992, Pages 173-207
	AQ	English Language Abstract of European Patent No. 03 30 7575

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AE	AA	4,636,876	1-13-87	Schwartz			
	AB	4,855,692	8-8-89	Kennard et al.			
	AC	4,873,701	10-10-89	Tretter			
	AD	4,958,360	9-18-90	Sari			
	AE	5,115,453	5-19-92	Calderbank et al.			
	AF	5,168,509	12-1-92	Nakamura et al.			
	AG	5,600,672	2-4-97	Oshima et al.			
	AH	6,049,651	4-11-00	Oshima			
AE	AI	6,256,357	7-3-01	Oshima			

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	<del>AJ</del>	<del>0422886</del>	<del>10-24-84</del>	<del>EP</del>			<del>X</del>
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	AL	64-68144	3-14-89	Japan			abstract
	AM	5-218978	8-27-93	Japan			X
	AN	3-69295	3-25-91	Japan			X

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	AO	Kazuhiko Nitadori, Synthesis of Multichannel Orthogonal VSB Signals by Quadrature Method, 1976 International Conference on Communications, June 14-16, 1976, Volume 1, Pages 3-25 - 3-29.
	AP	Thomas M. Cover, Broadcast Channels, IEEE Transactions on Information Theory, January 1972, Pages 2-14
	AQ	Optimum weighted PCM for Speech Signals, Sundberg, IEEE Transactions on Communications, Volume COM-26, No. 6, June 1978, Pages 872-881.

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AE	AA	5,170,413	12-8-92	Hess et al.			
AE	AB	5,214,656	5-25-93	Chung et al.			
AE	AC	4,800,426	1-24-89	Glenn			

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	<del>AD</del>	<del>57 30630</del>	<del>2-4-82</del>	<del>Japan</del>			<del>abstract</del>	
	AE	58-161547	9-26-83	Japan			abstract	
	AF	63-180222	7-25-88	Japan			abstract	
	AG	92/22162	12-10-92	WO			X	
	AH	2-94814	4-5-90	Japan			abstract	
	AI	61-70861	4-11-86	Japan			abstract	
	AJ	2-218279	8-30-90	Japan			abstract	
	AK	2,095,435	5-10-92	Canada			X	
	AL	91/20137	12-26-91	WO			X	
	AM	2-141049	5-30-90	Japan				X
	AN	2-195732	8-2-90	Japan			abstract	
	AO	5-167633	7-2-93	Japan			abstract	
	AP	2-260726	10-23-90	Japan				X
	<del>AQ</del>	<del>58 161427</del>	<del>8-26-83</del>	<del>Japan</del>			<del>abstract</del>	

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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DATE CONSIDERED

01/26/2007

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.